

# Shubham Bajpai

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## EDUCATION

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- **International Institute of Information Technology, Bangalore**  
*Master of Technology in Information Technology — CGPA: 3.28/4* *July 2017 – July 2019*
- **Shri Shankaracharya Group Of Institutions, Bhilai**  
*Bachelor of Engineering in Computer Science and Engineering — CGPA: 8.09/10* *Aug. 2013 – July 2017*
- **Holy Cross Sen. Sec. School, Kapa, Raipur**  
*12<sup>th</sup> Grade — 72.2%* *2012*
- **Holy Cross Sen. Sec. School, Kapa, Raipur**  
*10<sup>th</sup> Grade — CGPA: 8.2/10* *2010*

## EXPERIENCE

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- **ClearTax** Bangalore, India  
*Software Engineering Intern* *May 2018 - Present*
  - **MarketPlace:** Working as a back-end engineer in the MarketPlace team of ClearTax. Contributing to various feature additions and bug fixes.
  - **Fulfillment-Backend:** My work included developing new features like credit note service, leads services, adding reminder feature for follow up, report cron jobs service and many more along-with handling on call issues related to orders in marketplace.

## SKILLS AND ABILITIES

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- **Programming Languages:** C++, Java, Python
- **Query Languages:** SQL, CQL, HQL
- **Tools, Libraries and Frameworks:** Net Beans, Eclipse, Gurobi, PyCharm, Scikit, IntelliJ IDEA, Drop Wizard, Hibernate, Maven, GurobiPy
- **Areas of Interest:** Algorithms, Optimization, Machine Learning, Geographic Information Systems

## PROJECTS

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- **Indian Railways Route Optimization and Scheduling :** The objective of the project was to find a conflict free schedule for a set of trains in a given railway network satisfying some constraints. We deal with large scale railway network at the scale of Indian Railways. Indian Railways poses a computational challenge for finding an optimal schedule. We developed algorithm with capability to deal with a fraction of the overall requirement with the improvement of a block section.
- **User Engagement:** Developed a model for classification of users based on their visiting pattern and activities on the platform and send relevant nudges to boost user engagement on platform. Designed a custom classification algorithm with the improvement over other standard algorithms.
- **Programming Language Skroth and Interpreter Valyria:** Developed an experimental programming language inspired by Game Of Thrones and the syntax derived from quotes and phrases of the book series The Song of Ice and Fire.
- **Crime Based Grading and Mapping Safe Zones:** Developed a GIS based application capable of finding safe zones geographically based on previous crime data of a region and plotting a safety level map so as to classify unsafe zones and safe zones in a city.

## ACHIEVEMENTS

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- Secured **AIR 36** All India Rank in **JEST 2017**.
- Secured **AIR 1087** in **GATE 2018**.
- Secured **AIR 937** in **GATE 2017**.
- Secured **AIR 753** in **CodeVita 2016**.
- Hackerrank rank 2692\* and **96 percentile**  $O(\log n)$  in algorithms.

- Event Head(*Technical*) of techno-cultural fest Samvid 2016.
- Secured 1st Rank n zonal Robotics Competition 2013 held in association with IISC Bengaluru.
- Secured **517** in **CGPET 2013**.
- Secured **1010** in **CGPET 2012**.